Amendments to the Claims:

1. (Previously Presented) An apparatus comprising:

a processor configured to transmit multiplexed data at a first transmission rate and operate with a first congestion window, wherein the processor is also configured to receive multiplexed data at a second transmission rate from a second host separate from the apparatus and configured to operate with a second congestion window, and wherein the processor is configured to set at least a size of the second congestion window based upon the first transmission rate, the size of the second congestion window, the second transmission rate and the size of the first congestion window.

2. (Previously Presented) An apparatus according to Claim 1, wherein the processor is configured to set at least a size of the second congestion window such that a product of the first transmission rate and the size of the second congestion window approximately equals a product of the second transmission rate and the size of the first congestion window.

3. (Previously Presented) An apparatus according to Claim 1, wherein the second host is configured to receive multiplexed data into a second reception window from the processor, wherein the processor is configured to set a size of the first congestion window based upon a maximum size of the first congestion window, and wherein the processor is configured to set the maximum size of the first congestion window based upon a size of the second reception window.

4. (Previously Presented) An apparatus according to Claim 1, wherein the processor is configured to receive multiplexed data into a first reception window, and wherein the processor is configured to set the size of the second congestion window based upon a size of the first reception window.

5. (Previously Presented) An apparatus according to Claim 4, wherein the processor being configured to set the size of the second congestion window includes being configured to:

determine a size of the first reception window based upon a maximum size of the first congestion window and the first and second transmission rates; and

transmit multiplexed data to the second host indicating the size of the first reception window such that the second host configures the size of the second congestion window based upon the size of the first reception window.

6. (Previously Presented) An apparatus according to Claim 5, wherein the processor being configured to determine a size of the first reception window includes being configured to multiply the maximum size of the first congestion window by the second transmission rate and dividing the product by the first transmission rate.

7. (Previously Presented) An apparatus according to Claim 1, wherein the processor is configured to continuously transmit multiplexed data and receive multiplexed data from the second host, and wherein the processor is configured to continuously set at least the size of the second congestion window.

8. (Previously Presented) A method of bi-directional communication between a first host and a separate, second host, the method comprising:

transmitting multiplexed data at a first transmission rate from the first host operating with a first congestion window;

receiving multiplexed data at a second transmission rate from the second host operating with a second congestion window; and

configuring at the first host at least a size of the second congestion window based upon the first transmission rate, the size of the second congestion window, the second transmission rate and the size of the first congestion window.

9. (Previously Presented) A method according to Claim 8, wherein configuring at least the size of the second congestion window comprises configuring at least the size of the second congestion window such that a product of the first transmission rate and the size of the second congestion window approximately equals a product of the second transmission rate and the size of the first congestion window.

10. (Original) A method according to Claim 8, wherein the second host is capable of receiving multiplexed data into a second reception window from the first host, wherein configuring a size of the first congestion window comprises configuring a size of the first congestion window based upon a maximum size of the first congestion window, and wherein configuring a maximum size of the first congestion window comprises configuring a maximum size of the first congestion window based upon a size of the second reception window.

11. (Original) A method according to Claim 8, wherein receiving multiplexed data comprises receiving multiplexed data into a first reception window, and wherein configuring a size of the second congestion window comprises configuring a size of the second congestion window based upon a size of the first reception window.

12. (Original) A method according to Claim 11, wherein configuring a size of the second congestion window comprises:

determining a size of the first reception window based upon a maximum size of the first congestion window and the first and second transmission rates; and

transmitting multiplexed data to the second host indicating the size of the first reception window such that the second host configures the size of the second congestion window based upon the size of the first reception window.

13. (Original) A method according to Claim 12, wherein determining a size of the first reception window comprises determining a size of the first reception window by multiplying

the maximum size of the first congestion window by the second transmission rate and dividing the product by the first transmission rate.

14. (Previously Presented) A method according to Claim 8, wherein transmitting multiplexed data and receiving multiplexed data comprise continuously transmitting multiplexed data and receiving multiplexed data, respectively, and wherein configuring at least a size of the second congestion window comprises continuously configuring at least a size of the second congestion window.

15. (Previously Presented) A computer-readable storage medium having computer-readable program code portions stored therein, the computer-readable program code portions comprising:

a first executable portion for transmitting multiplexed data at a first transmission rate from a first host operating with a first congestion window, the first host being configured to bi-directionally communicate with a separate, second host;

a second executable portion for receiving multiplexed data at a second transmission rate from the second host operating with a second congestion window; and

a third executable portion for configuring at the first host at least a size of the second congestion window based upon the first transmission rate, the size of the second congestion window, the second transmission rate and the size of the first congestion window.

16. (Previously Presented) A computer-readable storage medium according to Claim 15, wherein the third executable portion is configured to set at least the size of the second congestion window such that a product of the first transmission rate and the size of the second congestion window approximately equals a product of the second transmission rate and the size of the first congestion window.

17. (Previously Presented) A computer-readable storage medium according to Claim 15, wherein the second host is capable of receiving multiplexed data into a second reception window from the first host, wherein the third executable portion is configured to set the size of the first congestion window based upon a maximum size of the first congestion window, and wherein the third executable portion is configured to set the maximum size of the first congestion window co based upon a size of the second reception window.

18. (Previously Presented) A computer-readable storage medium according to Claim 15, wherein the first executable portion is configured to receive multiplexed data into a first reception window, and wherein the third executable portion is configured to set the size of the second congestion window based upon a size of the first reception window.

19. (Previously Presented) A computer-readable storage medium according to Claim 18, wherein the third executable portion being configured to set the size of the second congestion includes being configured to:

determine a size of the first reception window based upon a maximum size of the first congestion window and the first and second transmission rates; and

transmit multiplexed data to the second host indicating the size of the first reception window such that the second host sets the size of the second congestion window based upon the size of the first reception window.

20. (Previously Presented) A computer-readable storage medium according to Claim 19, wherein the third executable portion is configured to determine a size of the first reception window by multiplying the maximum size of the first congestion window by the second transmission rate and dividing the product by the first transmission rate.

21. (Previously Presented) A computer-readable storage medium according to Claim 15, wherein the first and second executable portions are configured to continuously transmit

multiplexed data and receive multiplexed data, respectively, and wherein the third executable portion is configured to continuously set at least a size of the second congestion window.

22. (New) An apparatus according to Claim 1 further comprising:

a memory connected to the processor and configured to store at least a portion of the multiplexed data.